

1      Amendments to the Claims:

2      This listing of claims will replace all prior versions, and  
3      listings, of claims in the application using (Original) (Currently  
4      Amended) (New) (Canceled) (Previously Presented) nomenclature, as  
5      recited in the below listing of claims.

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7      1. (Original) A hinge for positioning a left panel and a right  
8      panel, the hinge comprising,

9                an inflatable bladder for encapsulating an inflation material,  
10               a top film extending between the left and right panels and  
11               encapsulating a curing resin, and

12               a bottom film extending between the left and right panels, the  
13               top film and bottom film are circumferentially disposed about the  
14               bladder, the top film having a top circumferential length, the  
15               bottom film having a bottom circumferential length, the top and  
16               bottom circumferential lengths for angularly positioning the left  
17               and right panels.

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19      2. (Original) The hinge of claim 1 further comprising,

20               a flex circuit extending from the left panel and around the  
21               bladder for electrically routing power from the left panel.

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24      3. (Original) The hinge of claim 1 wherein,

25               the inflation material is a sublimation powder disposed in the  
26               bladder for inflating the bladder.

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1       4. (Original) The hinge of claim 1 further comprising,  
2              a reflective coating disposed on the bladder for reflective UV  
3              light into the curing resin.

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5       5. (Original) The hinge of claim 1 further comprising,  
6              a left frame for securing the left panel to the top film and to  
7              the bottom film and to the bladder, and  
8              a right frame for securing the right panel to the top film and  
9              to the bottom film and to the bladder.

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11      6. (Original) The hinge of claim 1 further comprising,  
12              a left frame for supporting the left panel to the top film and  
13              to the bottom film and to the bladder,  
14              a left adhesive layer for securing the left frame to the left  
15              panel and to the top film and to the bottom film and to the  
16              bladder,  
17              a right frame for supporting the right panel to the top film and  
18              to the bottom film and to the bladder, and  
19              a right adhesive layer for securing the right frame to the right  
20              panel and to the top film and to the bottom film and to the  
21              bladder.

1       7. (Original) The hinge of claim 1 further comprising,  
2            a flex circuit extending from the left panel and around the  
3            bladder for electrically routing power from the left panel,  
4            a plurality of ground pads disposed on the top and bottom films,  
5            a plurality of extensions comprising conductive traces extending  
6            from the flex circuit to the plurality of ground pads,  
7            respectively, for distributively grounding the hinge.

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10      8. (Original) The hinge of claim 1 further comprising,  
11            a flex circuit extending from the left panel and around the  
12            bladder for electrically routing power from the left panel,  
13            a plurality of ground pads disposed on the top and bottom films  
14            and disposed on and under the left and right panels, and  
15            a plurality of extensions comprising conductive traces extending  
16            from the flex circuit to the plurality of ground pads,  
17            respectively, for grounding the hinge.

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19      9. (Original) The hinge of claim 1 further comprising,  
20            a flex circuit extending from the left panel and around the  
21            bladder for electrically routing power from the left panel, the  
22            left panel being a solar cell panel comprising a silver contact and  
23            a thin film solar cell, the flex circuit comprising a conductor  
24            trace connected the silver contact for routing power from the left  
25            panel and around the bladder.

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1       10. (Currently Amended) The hinge of claim 1 wherein the curing  
2       resin is cured by exposure to UV light, the hinge further  
3       comprising,

4            a coating disposed over the top and bottom films for passing UV  
5       light and for conducting static electrical charge, the coating  
6       serving to discharge static electrical charge accumulating on the  
7       coating.

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10      11. (Currently Amended) The hinge of claim 1 wherein the curing  
11     resin is cured by exposure to UV light, the hinge further  
12     comprising,

13            a transparent coating disposed over the hinge for passing UV  
14     light and for conducting static electrical charge, the coating  
15     comprising indium tin oxide and magnesium fluoride, the transparent  
16     coating serving to discharge static electrical charge accumulating  
17     on the transparent coating.

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19      12. (Currently Amended) The hinge of claim 1 wherein the left panel  
20     is a solar cell panel for providing power, the hinge further  
21     comprising,

22            a flex circuit extending from the left panel and around the  
23     bladder and comprising a trace conductor for electrically routing  
24     power from the left panel having an electrical contact and around  
25     the bladder, and

26            a wrap around contact for electrically connecting the electrical  
27     contact and the trace conductor.

1       13. (Currently Amended) A hinge for positioning a left panel and a  
2       right panel, the hinge comprising,

3           a top film for encapsulating a curing resin, the curing resin  
4       cured by exposure to UV light, the top film having a top  
5       circumferential length for defining the a position between the left  
6       and right panels, and

7           a coating disposed over the top film for passing the UV light  
8       for curing the curing resin and for static discharge protection of  
9       the film, the coating serving to discharge static electrical charge  
10      accumulating on the coating.

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12       14. (Currently Amended) The hinge of claim 13, the hinge further  
13      comprising,

14           a bladder, and

15           a bottom film, the top film and bottom films are  
16       circumferentially disposed about the bladder, the bottom film  
17       having a bottom circumferential length, the top and bottom  
18       circumferential length defining the position between the left and  
19       right panels,

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21       15. (Original) The hinge of claim 13, wherein,

22           the coating comprises indium tin oxide and magnesium fluoride.

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1       16. (Currently Amended) A hinge for positioning a left panel and a  
2 right panel, the hinge comprising,  
3       a curing resin,  
4       a top film coupled to the left and right panels and for  
5 encapsulating the curing resin, the curing resin being cured by  
6 exposure to UV light, the top film having a top circumferential  
7 length for defining ~~the~~ an angular position between the left and  
8 right panels.

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